

MECHANICAL

HOMEOWNER HANDOUT

-- *An overview for single family dwellings - -*
Basement/Attic Finish

- Permits needed for:
1. Bath exhaust fans
 2. New supply outlets
 3. Duct
 4. Clothes dryer exhaust
 5. Changing of furnace flue vent

BATH EXHAUST:

Bath exhaust fans are required in all restrooms. Duct must be increased to 4" diameter instead of 3" diameter if there is an elbow and the duct is more than 3' long. The exhaust duct must terminate outside of the house.

COMBUSTION AIR:

The mechanical code most frequently ignored during remodeling is the combustion air requirements to the furnace room. As walls are built and finished, the combustion air supplied to the furnace and water heater is decreased. When this happens, some provision must be made to replenish this lost volume of air. This may be accomplished by either one of two methods: high /low grills or outside air.

High/Low Grills:

By adding the total input BTUs of the furnace and water heater (marked on nameplate) you can calculate the size of combustion air grills to be installed (within 12" of ceiling and floor). These grills are installed through the walls to replenish the combustion air volume to the furnace room.

Outside air:

An alternative method is to provide an opening into the furnace room from the outside of the house to replenish the combustion air. The total input BTUs will determine the size of opening from the outside.

Consult with a registered Heating Contractor or an Inspector with the Department of Building & Safety for assistance in these calculations.

DRYER EXHAUST DUCTS:

Dryer exhaust duct must be metal and have a smooth interior surface wherever it is concealed. You may use 6' of flexible duct connected to your dryer if it is not concealed in the wall or ceiling. Dryer exhaust ducts may be 25' long using two 90 degree elbows. Each additional 90 degree elbow will decrease the length of the duct allowed by 8'. Do not use screws to fasten dryer duct. You may use a strong "foil" tape.

FURNACE:

If you are building walls or doors close to your furnace you must maintain proper clearances. Thirty inches is required in front of the furnace for access to repair. The sides and back of the furnace will have clearance ratings marked on the name plate. These are usually 1". A door may be built no closer than 6" in front of a furnace (provided the door opens to provide 30" clearance). The supply duct extending horizontally away from your furnace must be 1" away from combustibles for the first 3'. The furnace flue pipe requires 6" clearance to combustibles if it is single wall pipe. One inch clearance is required for type "B" double wall flue pipe.

FURNACE ACCESS:

You may not have a furnace in a bedroom or a bathroom (shower or tub room). You may not pass through a bedroom or a bathroom to access the furnace room.

HOMEOWNER VERIFICATION
for MECHANICAL / GAS PIPING PERMITS
DEPT OF BUILDING & SAFETY, 555 S 10th St, Room 203
LINCOLN / LANCASTER COUNTY, NE 68508

_____, being first duly sworn, says that:
Name: (please type or print) First -- M.I. -- LAST

1. **I am the owner** of the single-family dwelling located at: _____
House # St Direction Name of St St Type
2. **I presently reside in the single-family dwelling**, or will reside there after construction is completed.
3. **I will install** and connect the Heating / Ventilation / Cooling / Gas Piping for **myself, without compensation** or pay from, or to, any other person.
4. **I have submitted detailed plans** of the proposed Heating / Ventilation / Cooling / Gas Piping installation, **as required** by the Mechanical Section, to the DEPT OF BUILDING & SAFETY. I have **sufficient knowledge** of the Lincoln Mechanical Code requirements as stated in:
CHAPTER 24.05 [GAS PIPING] AND/OR CHAPTER 25.03 [MECHANICAL]
OF THE LINCOLN MUNICIPAL CODE, to satisfactorily complete the project.
5. **I am aware the project** for which a Permit is issued **must be inspected BEFORE Vents or Ducts are concealed; AND also must be inspected when** the installation of the Heating / Ventilation / Cooling / Gas Piping **work is completed.** I will call the DEPT OF BUILDING & SAFETY
24-hr Inspection Line (402) 441-8213 before 7:00 AM for same day inspection
and request the required inspections with the following information:
• **Permit #** AND [House #, Street Name, & Type of Street],
• **Date** you want the inspection, (AM or PM, if necessary), and
• **Access instructions** (if necessary, contact an inspector between 8:00 and 8:45 AM with any special information).
If I have any questions I will call the Mechanical Section (402) 441-7508.
6. **I am aware** the Mechanical / Gas Piping **PERMIT is valid for 120 days from issuance.**
7. **I am aware** that *failure to submit satisfactory information or violating the above statements* is sufficient grounds to *void* a Permit already issued or to *refuse issuance* of a Heating / Ventilation / Cooling / Gas Piping Permit to a homeowner.
8. **I am aware** that there is a **\$25.00 fee for each reinspection** required **because of non-compliance** with Lincoln Mechanical Code / Gas Piping Code **or if work is not complete** at the time inspection is called for.

_____-_____-_____
Date

(____)_____-_____
Home Phone #

X_____
Signature of Homeowner

_____-_____-_____
Date Received

(____)_____-_____
Work Phone #

--> COPY to Homeowner